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1 [A framework for the transmission of streaming media to mobile devices](#)

Kevin Curran, Gerard Parr

January 2002 [International Journal of Network Management](#), Volume 12 Issue 1

Publisher: John Wiley & Sons, Inc.

Full text available: [pdf\(302.57 KB\)](#)
[Additional Information: full citation, abstract, references, index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 81, Citation Count: 0

One interesting problem is the delay imposed upon mobile receivers when switching between wireless cells. We provide a solution to this in the form of an extension of Mobile IP's handoff algorithm. Our solution involves the exploitation of mobility prediction ...

2 [Nanowire-based programmable architectures](#)

André Dehon

 July 2005 [ACM Journal on Emerging Technologies in Computing Systems \(JETC\)](#), Volume 1
 Issue 2

Publisher: ACM

Full text available: [pdf\(2.25 MB\)](#)
[Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 31, Downloads (12 Months): 400, Citation Count: 3

Chemists can now construct wires which are just a few atoms in diameter; these wires can be selectively field-effect gated, and wire crossings can act as diodes with programmable resistance. These new capabilities present both opportunities and challenges ...

Keywords: Defect tolerance, Manhattan mesh, nanowires, programmable interconnect, programmable logic arrays, stochastic construction, sublithographic architecture

3 [The Reconfigurable Streaming Vector Processor \(RSVPTM\)](#)

 Silviu Ciricescu, Ray Essick, Brian Lucas, Phil May, Kent Moat, Jim Norris, Michael Schuette, Ali Saic
 December 2003 [MICRO 36: Proceedings of the 36th annual IEEE/ACM International Symposium on](#)

Microarchitecture

Publisher: IEEE Computer Society

Full text available: [pdf\(305.63 KB\)](#)
[Additional Information: full citation, abstract, references, cited by, index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 71, Citation Count: 8

The need to process multimedia data places large computational demands on portable/embedded devices. These multimedia functions share common characteristics: they are computationally

intensive and data-streaming, performing the same operation(s) on many data ...

4 [Protection of long-reach PON traffic](#)



David K. Hunter, Tim H. Gilfedder

September 2006 AccessNets '06: Proceedings of the 1st international conference on Access network

Publisher: ACM

Full text available: [pdf\(181.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 89, Citation Count: 0

A resilience strategy is introduced for networks implementing dual homing (dual parenting) of customers, specifically those employing Long-Reach PONs (LR-PONs). Assuming that some mechanism exists to detect network element failures, the discussion concentrates ...

Keywords: GPON, internet routing protocols, passive optical networks, protection and restoration

5 [Protocol scrubbing: network security through transparent flow modification](#)

David Watson, Matthew Smart, G. Robert Malan, Farnam Jahanian

April 2004 IEEE/ACM Transactions on Networking (TON), Volume 12 Issue 2

Publisher: IEEE Press

Full text available: [pdf\(316.54 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 121, Citation Count: 2

This paper describes the design and implementation of protocol scrubbers. Protocol scrubbers are transparent, interposed mechanisms for explicitly removing network scans and attacks at various protocol layers. The transport scrubber supports downstream ...

Keywords: intrusion detection, network security, protocol scrubber, stack fingerprinting

6 [Mobile connectivity protocols and throughput measurements in the Ricochet Microcellular data network \(MCDN\) system](#)



Mike Ritter, Robert J. Friday, Rodrigo Garces, Weill San Filippo, Cuong-Thinh Nguyen, Arty Srivasta
July 2001 MobiCom '01: Proceedings of the 7th annual international conference on Mobile computing and networking

Publisher: ACM

Full text available: [pdf\(176.43 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 34, Citation Count: 3

We describe the protocols implemented in the Ricochet MCDN system to provide continuous connectivity to mobile users traveling up to 70 mph. These protocols are general in nature for a frequency-hopping microcell-based system, particularly those that ...

Keywords: MCDN system architecture, Mobility, wireless networks, wireless protocols, wireless routing

7 [Exploiting perception in high-fidelity virtual environments](#)





Additional presentations from the 24th course are available on the citation page

Mashhuda Glencross, Alan G. Chalmers, Ming C. Lin, Miguel A. Otaduy, Diego Gutierrez

July 2006 SIGGRAPH '06: ACM SIGGRAPH 2006 Courses

Publisher: ACM

Full text available:  pdf(5.07 MB)  mov(68.6 MiB) **Additional Information:** [full citation](#), [appendices and supplements](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 173, Downloads (12 Months): 1546, Citation Count: 1

The objective of this course is to provide an introduction to the issues that must be considered when building high-fidelity 3D engaging shared virtual environments. The principles of human perception guide important development of algorithms and techniques ...

Keywords: collaborative environments, haptics, high-fidelity rendering, human-computer interaction, multi-user, networked applications, perception, virtual reality

8 [Hash-based IP traceback](#)



Alex C. Snoeren

August 2001 SIGCOMM '01: Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications

Publisher: ACM

Full text available:  pdf(179.03 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 146, Citation Count: 68

The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in the absence of any deliberate attempt to disguise a packet's origin, wide-spread packet forwarding techniques such as NAT and encapsulation ...

9 [Integration of mobile-IP and OLSR for a universal mobility](#)

Mounir Benzaid, Pascale Minet, Khaldoun Al Agha, Cedric Adjih, Geraud Allard

July 2004 Wireless Networks, Volume 10 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(419.15 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 98, Citation Count: 0

Trends in fourth generation (4G) wireless networks are clearly identified by the full-IP concept where all traffic (data, control, voice and video services, etc.) will be transported in IP packets. Many proposals are being made to enhance IP with the ...


Keywords: Mobile-IP, OLSR, macro-mobility, micro-mobility, mobile ad-hoc networks, mobility management

10 [Performance analysis of carbon nanotube interconnects for VLSI applications](#)

N. Srivastava, K. Banerjee

May 2005 ICCAD '05: Proceedings of the 2005 IEEE/ACM International conference on Computer-aided design

Publisher: IEEE Computer Society

Full text available:  pdf(800.04 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 81, Citation Count: 3

The work in this paper analyses the applicability of carbon nanotube (CNT) bundles as interconnects for VLSI circuits, while taking into account the practical limitations in this technology. A model is developed to calculate equivalent circuit parameters ...

Intelligent handoff for mobile wireless internet

Jon Chung-Shien Wu, Chieh-Wen Cheng, Gin-Kou Ma, Nen-Fu Huang

January 2001 Mobile Networks and Applications. Volume 6 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  pdf(223.56 KB)Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 135, Citation Count: 5


Keywords: mobile internet, wireless data networks, wireless internet

12 Multicast in 3G networks:: employment of existing IP multicast protocols in UMTS

Mariann Hauge, Øyvind Kure

September 2002 WOWMOM '02: Proceedings of the 5th ACM international workshop on Wireless mobile multimedia

Publisher: ACM

Full text available:  pdf(338.06 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 126, Citation Count: 5

In this article we discuss the use of commonly deployed IP multicast protocols in UMTS network. We analyze three possible UMTS multicast architectures, all employing standard IP multicast protocols. We study the architectures' ability to handle: group ...


Keywords: IGMP, SSM, UMTS, multicast, wireless internet

13 Mobile networking in the Internet

Charles E. Perkins

December 1998 Mobile Networks and Applications. Volume 3 Issue 4

Publisher: ACM

Full text available:  pdf(166.99 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 34, Downloads (12 Months): 302, Citation Count: 8


Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for ...

14 Hash-based IP traceback

Alex C. Snoeren

October 2001 ACM SIGCOMM Computer Communication Review. Volume 31 Issue 4

Publisher: ACM

Full text available:  pdf(179.03 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 26, Downloads (12 Months): 146, Citation Count: 68

The design of the IP protocol makes it difficult to reliably identify the originator of an IP packet. Even in the absence of any deliberate attempt to disguise a packet's origin, wide-spread packet forwarding techniques such as NAT and encapsulation ...


15 Qualification and Integration of Complex I/O in SoC Design Flows

Jay Abraham, Guruprasad Rao

February 2004 DATE '04: Proceedings of the conference on Design, automation and test in

Europe - Volume 3, Volume 3

Publisher: IEEE Computer Society

Full text available:  pdf(242.86 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 24, Citation Count: 0

Low power, high speed, and reduced cost requirements force integration of specialized Intellectual Property (IP) like complex I/O blocks on a System on Chip (SoC). Today designers have access a variety of specialized IP blocks and cells for use in ...

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